SUBJECT INDEX

Aircraft materials, p. 200
Alcohol consumption, effect on fire death rate, p. 33
Ammonia, as a flame retardant, p. 155
Ammonium halides, effect on polystyrene, p. 81
ASTM E84, p. 403
Aviation fire safety, p. 379
Blend fabrics, flame retarded by wood, p. 145
Backcoating, effect of, p. 96
Bromine content, p. 403
Burning rate, upholstered furniture, p. 9
Cable, p. 54
Carbon monoxide, p. 118
Cigarette ignition, p. 309
Cigarette smoking, effect on fire death rate, p. 33
Cigarette test, p. 96
Coefficient of smoke generation, p. 348
CO evolution, p. 364
Colorimetric, p. 322
Combustion, p. 118, 322
Combustion toxicology, p. 465
Communications cable, p. 54
Computer simulation, fire testing, p. 221
Cotton, p. 165
Cotton batting, p. 96
Critical oxygen index, p. 459
Decomposition products, p. 465
Degradation, p. 322
Douglas fir, thermal analysis, p. 271
Effect of air flow, p. 322
Effect on fabric weight on smoldering, p. 309
Effect on fiber content on smoldering, p. 309
Fabric weight, p. 309
Fabrics, p. 96, 165, 322
Fiber content, p. 309
Fire, p. 118
Fire death rate, p. 33
Fire hazard, p. 396
Fire resistant films, p. 200
Fire test, p. 54, 396
Fireworthy composites, p. 432
Flame inhibition, p. 396
Flame retardants, p. 66, 165, 255
Flammability, p. 200, 322
Flammability limits, p. 396
Flammability standards, p. 309
Flammability testing, p. 96
Flammability tests, upholstered furniture, p. 9
Flash fire, p. 396
Fuel fire, p. 396
Furniture, p. 96
Gas velocity effects, p. 459
Halogen compounds, p. 177
Halogen flame inhibitors, p. 396
HDPE, p. 465
Heat release rate, p. 9
Heating rates, p. 465
Heat transfer, p. 379
Honeycomb sandwiches, p. 379
Hydrogen bromide evolution, p. 255
Hydrogen cyanide, p. 118
Irritance, p. 118
Isocyanate index, p. 403
Large scale test, p. 54
Limiting oxygen index, p. 459
Low smoke zirpo treatment, p. 418
Maso spectrometry, p. 165
Math modeling, p. 379
Mathematical model, controlled compartment fire, p. 235
Maximum coefficient of light obscuration, p. 348
Mechanism of flame retardation, p. 255
Methyl borate treatment, p. 96
National electrical code, p. 54
Non-combustible materials, fire testing, p. 221
Organo bromides, p. 255
Oxygen index, p. 459
Paints, p. 191

continued

SUBJECT INDEX

Aircraft materials, p. 200
Alcohol consumption, effect on fire death rate, p. 33
Ammonia, as a flame retardant, p. 155
Ammonium halides, effect on polystyrene, p. 81
ASTM E84, p. 403
Aviation fire safety, p. 379
Blend fabrics, flame retarded by wood, p. 145
Backcoating, effect of, p. 96
Bromine content, p. 403
Burning rate, upholstered furniture, p. 9
Cable, p. 54
Carbon monoxide, p. 118
Cigarette ignition, p. 309
Cigarette smoking, effect on fire death rate, p. 33
Cigarette test, p. 96
Coefficient of smoke generation, p. 348
CO evolution, p. 364
Colorimetric, p. 322
Combustion, p. 118, 322
Combustion toxicology, p. 465
Communications cable, p. 54
Computer simulation, fire testing, p. 221
Cotton, p. 165
Cotton batting, p. 96
Critical oxygen index, p. 459
Decomposition products, p. 465
Degradation, p. 322
Douglas fir, thermal analysis, p. 271
Effect of air flow, p. 322
Effect on fabric weight on smoldering, p. 309
Effect on fiber content on smoldering, p. 309
Fabric weight, p. 309
Fabrics, p. 96, 165, 322
Fiber content, p. 309
Fire, p. 118
Fire death rate, p. 33
Fire hazard, p. 396
Fire resistant films, p. 200
Fire test, p. 54, 396
Fireworthy composites, p. 432
Flame inhibition, p. 396
Flame retardants, p. 66, 165, 255
Flammability, p. 200, 322
Flammability limits, p. 396
Flammability standards, p. 309
Flammability testing, p. 96
Flammability tests, upholstered furniture, p. 9
Flash fire, p. 396
Fuel fire, p. 396
Furniture, p. 96
Gas velocity effects, p. 459
Halogen compounds, p. 177
Halogen flame inhibitors, p. 396
HDPE, p. 465
Heat release rate, p. 9
Heating rates, p. 465
Heat transfer, p. 379
Honeycomb sandwiches, p. 379
Hydrogen bromide evolution, p. 255
Hydrogen cyanide, p. 118
Irritance, p. 118
Isocyanate index, p. 403
Large scale test, p. 54
Limiting oxygen index, p. 459
Low smoke zirpo treatment, p. 418
Maso spectrometry, p. 165
Math modeling, p. 379
Mathematical model, controlled compartment fire, p. 235
Maximum coefficient of light obscuration, p. 348
Mechanism of flame retardation, p. 255
Methyl borate treatment, p. 96
National electrical code, p. 54
Non-combustible materials, fire testing, p. 221
Organo bromides, p. 255
Oxygen index, p. 459
Paints, p. 191

continued

Subject Index continued

Phosphorus, p. 177
Phosphorus content, p. 403
Piloted ignition delays, p. 191
Plastics flammability, p. 9
Poly (ethylene terephthalate), p. 255
Polyester batting, p. 96
Polyethylene, p. 465
Polyisocyanurate foam, p. 348
Polymers, p. 118
Polystyrene, effect of ammonium halides on, p. 81
Polyurethane foam, p. 348
Pyrolysis, p. 165
Radiative heating, p. 191
Rigid polyisocyanurate foams, p. 403
Rigid polyurethane foams, p. 403
Riser shaft, p. 54
Small scale fire tests, p. 403
Smoke and toxic gas, from wool carpets, p. 418
Smoldering, p. 309
Southern pine, thermal analysis, p. 271
Test method, p. 459
Textile flammability, p. 9
Thermal analysis, p. 255
Thermal degradation, p. 191
Thermochemistry, p. 379
Thermogravimetric analysis, p. 191
Thermoplastics, p. 200
Thermoplastic elastomers, p. 66
Thermoplastic polyurethanes, p. 66
Thin films, p. 200
Timber, change in strength after exposure to elevated temperatures, p. 285
Total smoke quantity, p. 348
Toxicity, p. 118
Transportation vehicles, fireworthy composites for, p. 432
Underwriters laboratories, p. 54
Upholstery fabric, p. 309
Upholstered furniture, heat release rates, p. 9
Upholstery furniture, p. 309
Volatile fuel, p. 165
Weight decrease, p. 348
Wood, p. 191
Wool, as a flame retardant, p. 145
Wooden beams, failure time, p. 297

AUTHOR INDEX

Akrich, R., p. 191
Babrauskas, Vytenis, p. 9
Cartmell, M.J., p. 403
Cohen, S.C., p. 403
Damant, Gordon H., p. 96, 309
Day, M., p. 255
Franklin, William E., p. 165
Gad, Shayne Cox, p. 465
Huggett, Clayton, p. 396
Hurst, A.T., p. 403
Imai, Yoshio, p. 348
Inukai, Takao, p. 348
Kaufman, S., p. 54
Kourtides, Demetrius A., p. 200
Lattimer, Mary D., p. 322
McCormack, John A., p. 309
Mellottee, H., p. 191
Morikawa, Tokio, p. 364
Przybyla, L.J., p. 54
Purser, D.A., p. 118
Ramohalli, Kumar, P., 379
Smith, Ann C., p. 465
Smith, E.E., p. 54
Sutker, Burton, J., p. 66
Tamashima, Masato, p. 348
Vovelle, C., p. 191
Walter, Steve, p. 66
Whaton, R.K., p. 459
Wiles, D.M., p. 255
Williams, J.L., p. 54
Williams, Sharon S., p. 96, 309
Woolley, W.D., p. 118
Yeh, Kwan-nan, p. 322